

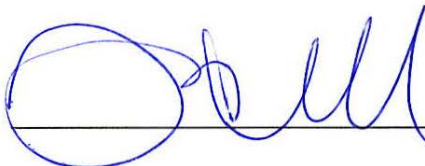
Backfill Approval

The incident commanders agree that the area identified on the attached figure is cleared for backfill according to the approved Backfill Plan.


Approved by:

VERBAL APPROVAL 3/2/2019 

FOSC

 3/2/2019 / 1530

SOSC

 3/2/2019 15:30

RPIC

DRAFT

TABLE 1
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYTICAL DATA¹
PETROLEUM HYDROCARBONS

I-84 DIESEL SPILL - LINDSEY LAKE OERS 2019-0334

I-84, MP 54 NEAR CASCADE LOCKS, OREGON

Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Diesel-range Hydrocarbons	Oil-range Hydrocarbons
			Northwest Method TPH-Dx (mg/kg)	
Interceptor Trench	2/18/19	--	279 F-15	227 F-03, F-16
Interceptor Trench East	2/18/19	--	53.7 F-13, F-15	815 F-03, F-16
	2/18/19	--	<26.4	447
Interceptor Trench West	2/18/19	--	3710 F-15	191 F-03, F-16
11, 180, 2	2/20/19	2	1310 F-15	822 F-16
11, 240, 2	2/20/19	2	1450 F-15	353 F-16
T0@1	2/21/19	1	201	<50.0
T1@2	2/21/19	2	<105	643
T2@2	2/21/19	2	<105	683
T3@2	2/21/19	2	<104	412
T4@2	2/21/19	2	<25.0	255
T5@2	2/21/19	2	<106	367
T6@2	2/21/19	2	<25.0	236
T7@3	2/21/19	3	<109	429
T8@3	2/21/19	3	<108	478
T9@3	2/21/19	3	<102	357
T10@1	2/21/19	1	628 F-15	1300 F-16
	2/21/19	1	693 F-15	930 F-16
T11@3	2/21/19	3	<25.0	405
T12@3	2/21/19	3	85.3	<50.0
T13@4	2/22/19	4	<25.0	<50.0
T14@3.5	2/22/19	3.5	<25.0	<50.0
35, 90, 20	2/22/19	20	<25.0	<50.0
35, 110, 20	2/22/19	20	<25.0	<50.0
45, 150, 20-1448	2/22/19	20	<25.0	<50.0
50, 80, 20	2/22/19	20	<25.0	<50.0
45, 150, 20-1457	2/22/19	20	<26.7	<53.5
40, 220, 20	2/22/19	20	<25.0	<50.0
45, 130, 20	2/22/19	20	<25.0	<50.0
35, 60, 10	2/22/19	10	26.2 F-15	103 F-16
45, 60, 15	2/22/19	15	26.7 F-15	157 F-16
21, 58, 4	2/22/19	4	<207	477
40, 200, 20	2/22/19	20	<25.0	<50.0
40, 240, 20	2/22/19	20	43.7	<50.0
40, 180, 20	2/22/19	20	<25.0	<50.0
45, 60, 15x	2/22/19	15	31.5 F-15	105 F-16
21, 58, 4x	2/22/19	4	<208	459
Trip Blank	2/21/19	--	--	--
35, 170, 20	2/28/19	20	37.9	<50.0
20, 130, 10	2/28/19	10	81	<50.0
35, 170, 20X	2/28/19	20	34	<50.0
11, 150, 1	2/28/19	1	105 F-15	329 F-16
55, 170, 20	2/28/19	20	<25.0	<50.0

DRAFT

Sample Identification	Date Sampled	Depth of Sample (feet bgs)	Diesel-range Hydrocarbons	Oil-range Hydrocarbons
			Northwest Method TPH-Dx (mg/kg)	
11, 130, 2	2/28/19	2	<25.0	<50.0
15, 150, 10	2/28/19	10	<25.0	<50.0
30, 130, 20	2/28/19	20	<25.0	<50.0
45, 130, 20	2/28/19	20	<25.0	<50.0
55, 150, 20	2/28/19	20	<25.0	<50.0
11, 170, 2	2/28/19	2	178 F-15	780 F-16
35, 150, 20	2/28/19	20	<25.0	<50.0
20, 170, 10	2/28/19	10	38.2	<50.1
15,210,10x	2/28/19	10		
11,230,1	2/28/19	1	117	250
15,210,10	2/28/19	10	61.3	<50.0
15,230,10	2/28/19	10	<25.0	<50.0
30,230,20	2/28/19	20	<25.0	<50.0
30,210,20	2/28/19	20	<25.0	<50.0
50,210,20	2/28/19	20	<25.0	<50.0
15,190,10	2/28/19	10	28.8	<50.0
45,190,20	2/28/19	20	<26.9	<53.9
11,210,1	2/28/19	1	304 F-15	96.9 F-16
11-190-1	2/28/19	1	<25.0	118
30-190-20	2/28/19	20	111	<50.0
11-90-2	3/1/19	2	<25.0	69.3
11-70-1	3/1/19	1	52.2 F-15	214 F-16
18-70-5	3/1/19	5	<25.0	<50.0
11-110-2	3/1/19	2	<25.0	178
230-50-22	3/1/19	22	<25.3	<50.6
50-230-25	3/1/19	25	<26.1	<52.3
53-210-22	3/1/19	22	<25.0	<50.0
53-210-25	3/1/19	25	<25.0	<50.0
53-200-22	3/1/19	22	<26.6	<53.1
53-200-22X	3/1/19	22	<25.5	<51.0
18-110-12	3/1/19	12		

Notes:

¹Chemical analytical analyses were performed by Apex Laboratory of Tigard, Oregon.

²Oregon Department of Environmental Quality. Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites.

*This RBC 1) is not established; 2) exceeds the solubility limit; or 3) is greater than a concentration where free product would be present.

mg/kg = milligrams per kilogram

bgs = below ground surface

"<6.97" indicates the analyte was not detected above the reported detection limit.

"--" = not analyzed

">Max" = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.

F-03 qualifier = The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.

F-13 qualifier = The chromatographic pattern does not resemble the fuel standard used for quantitation

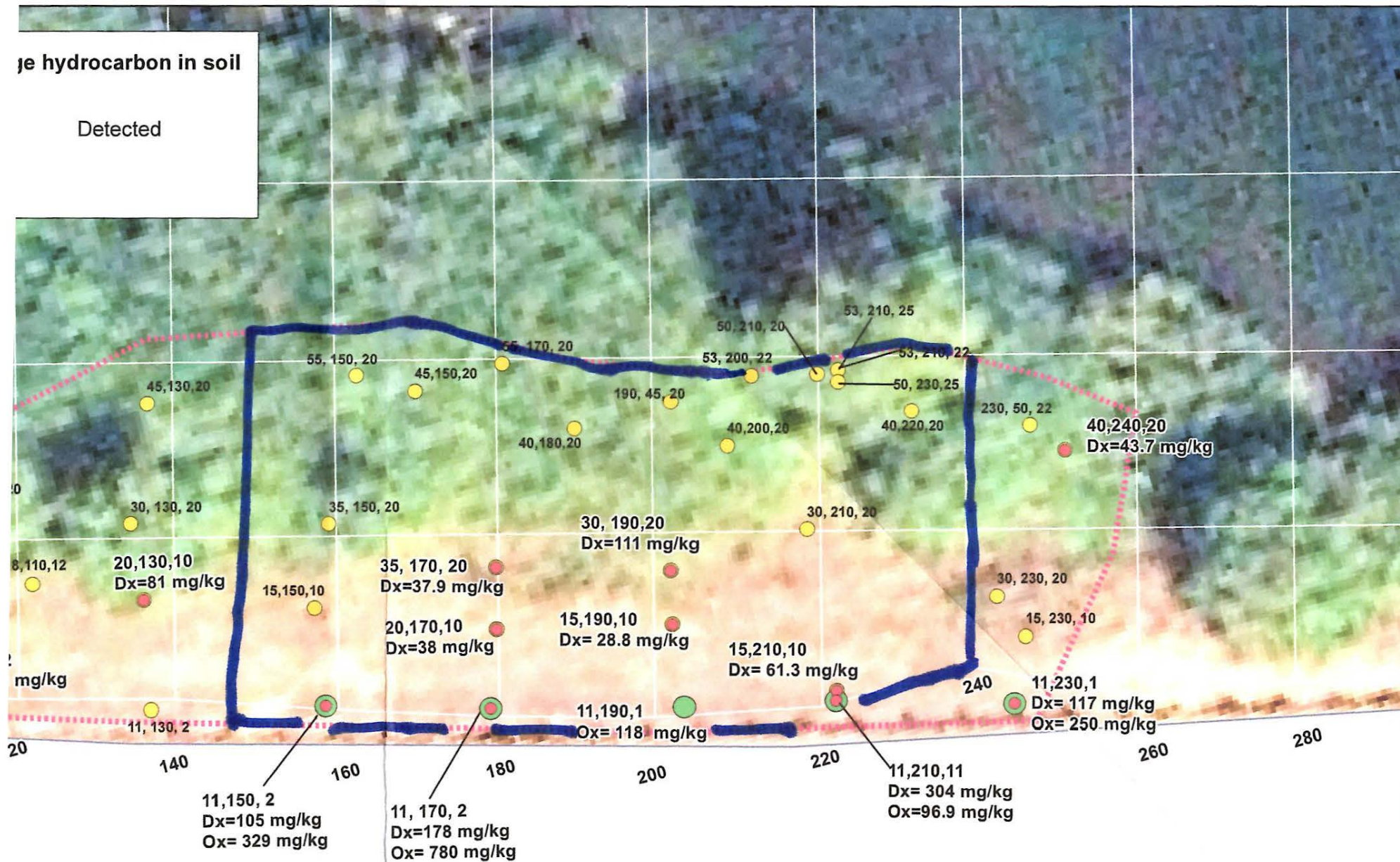
F-15 qualifier = Results for diesel are estimated due to overlap from the reported oil result.

F-16 qualifier = Results for oil are estimated due to overlap from the reported diesel result.

Bold indicates analyte detection.

je hydrocarbon in soil

Detected



150



240

— Area approved for backfill 3/2/2019